

SKOROBOGATOV, Vasiliy Yefimovich[Skorobohatov, V.IU.]; TOGOBITSKOVA, N.V.
[Tohobits'ka, N.V.], red.; NEMCHENKO, I.Yu., tekhn. red.

[Khaisha Mikhanova, famous sheep breeder] Khaisha Mikhanova -
znatnyi vivotsevod. Kyiv, Derzh.vyd-vo sil s'kohospodars'koi
lit-ry URSR, 1960. 23 p. (MIRA 14:12)
(Ukraine—Sheep breeding)

SKOROBOGATOV, Vasiliy Yefimovich; DZARAKHOKHOVA, Yekaterina Aleksandrovna;
PROTSENKO, E., red.; MUKHIN, Yu., tekhn. red.

[A self-made man from Kokterekskiy District] Samorodok Koktereka.
Moskva, Gos. izd-vo polit. lit-ry, 1961. 30 p. (MIRA 14:7)
(Kokterekskiy District—Sheep breeding)

SALYUKOV, P.A., kand. biol. nauk; VERNIGOR, V.A., kand. sel'khoz. nauk; KORMANOVSKAYA, M.A., kand. sel'khoz. nauk; GOLODNOV, A.V.; SKOROBOGATOV, Yu.A., mladshiy nauchnyy sotr.; MALLITSKIY, V.A., kand. sel'khoz. nauk; CHASHCHIN, B.V., kand. sel'khoz. nauk; PONOMAREV, P.P., kand. tekhn. nauk; BARMINTSEV, Yu.N., doktor sel'khoz. nauk; NECHAYEV, I.N., mlad. nauchnyy sotr.; POZDNYAKOV, P.M., kand. biol. nauk; KOVIN'KO, D.A., kand. biol. nauk; BALANINA, O.V., kand. sel'khoz. nauk; MOISEYEV, K.V., kand. sel'khoz. nauk; ROMANOV, P.F., kand. veter. nauk; PAL'GOV, A.A., kand. veter. nauk; ANAN'YEV, P.K., kand. veter. nauk; VASIL'YEV, B.M., kand. sel'khoz. nauk; ABDULLIN, V.A., kand. ekon. nauk; GALIAKBEROV, N., laureat Gos. premii, kand. sel'khoz. nauk, red.; GUSEVA, N., red.; MAGIBIN, P., tekhn. red.

[Reference book for zootechnicians] Spravochnik zootekhnika.

Pod red. N.Galiakberova. Alma-Ata, Kazsel'khozgiz, 1963.

492 p. (MIRA 16:5)

(Kazakhstan--Stock and stockbreeding)

SKOROBOGATOVA, A.

A valuable work on seroionotherapeutic treatment of persons sick
with hypertension. Vestis Latv ak no.4:177-178 '61.
(EEAI 10:9)

(HYPERTONIA) (AIR, IONIZED)

NIKITIN, V.N.; SKOROBOGATOVA, A.M.

General regulations of growth modification of the leukocyte picture
in higher vertebrates. Zh. obsh. biol. 12 no.4:287-295 July-Aug 1951.
(CLML 20:11)

1. Khar'kov Zootechnical Institute.

17(7)
AUTHOR:

Skorobogatova, A. M., Candidate of
Biological Sciences

SOV/30-58-12-37/46

TITLE:

Influence of Ionized Air on the Human Organism. (Vliyanie
aeroionov na organizm cheloveka) A Report of an American
Scientist at the Physiological Institute imeni I.P.
Pavlov (Doklad amerikanskogo uchenogo v Institute fizio-
logii im.I.P.Pavlova)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 12,
pp 92 - 93 (USSR)

ABSTRACT:

The chairman of the balneological committee of the
American Congress of Physical Medicine Doctor I.
Kh.Kornblyu was a guest of the Soviet Union. On
September 14, at a common conference of the Institut
fiziologii im. I.P.Pavlova Akademii nauk SSSR i Lenin-
gradskoye obshchestvo yestestvoispytateley (Physio-
logical Institute AS USSR and the Leningrad Society
of Scientists), he gave a lecture on the achievements
of American science obtained in the investigation
of the influence exercised by ionized air upon a

Card 1/2

Influence of Ionized Air on the Human Organism. A Report SOV/30-58-12-37/46
of an American Scientist at the Physiological Institute imeni I.P.Pavlov

sick organism. It was found that negative airions raise the capability of the plasma to bind carbon dioxide. The influence exercised by ionized air upon the electroencephalograph was examined, too. Clinical observations showed that ionized air (negative air-ions) exerted a favourable effect upon diseases like bronchial asthma, hay fever and other allergic diseases and upon the healing process of serious burns. The statements of the American scientist agree with the results which were obtained in this field in the Soviet Union.

Card 2/2

SKOROBOGATOVA, A.M.

Effect of ionized air on arterial pressure in animals with cross circulation following vagotomy of the respiratory tract. Trudy Inst.fiziol. 8:411-418 '59. (MIRA 13:5)

1. Laboratoriya obshchey nervno-myshechnoy fiziologii (zavedu-yushchiy - L.L. Vasil'yev) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(BLOOD PRESSURE) (AIR, IONIZED)
(RESPIRATORY ORGANS--INNERVATION)

Skorobogatova, A.M.

PHASE I BOOK EXPLOITATION

SOV/6150

Akademiya nauk Latviyskoy SSR. Institut eksperimental'noy meditsiny.

Voprosy kurortologii. [t.] 5: Problemy fiziologicheskogo deystviya i terapeuticheskogo primeneniya aeroionov (Problems in Health-Resort Therapy. v. 5: Studies of the Physiological Effect and Therapeutic Application of Air Ions). Riga, Izd-vo AN Latviyskoy SSR, 1959. 424 p. (Series: Its: Trudy, t. 20) Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Akademiya nauk Latviyskoy SSR. Institut eksperimental'noy meditsiny.

Editorial Board: Resp. Ed.: L. L. Vasil'yev, Professor, P. D. Perli, Professor, F. G. Portnov, Candidate of Medical Sciences, Ya. Yu. Reyne, Candidate of Physical and Mathematical Sciences, and L. M. Tutkevich, Candidate of Medical Sciences; Ed.: A. Vengranovich; Tech. Ed.: A. Zhukovskaya.

Card 1/7

25

Problems in Health-Resort (Cont.)

SOV/6150

PURPOSE: This book is intended for physicians working at health resorts and for the general practitioner.

COVERAGE: This book, a collection of articles, is essentially the proceedings of the Second Conference on the Physiological Effect and Therapeutic Application of Air Ions, held at Riga (Latvian SSR) in December 1957. The use of negative air ions is believed to be beneficial in the treatment of nonhealing wounds and ulcers which often result from radiation injury. The book contains photos of numerous devices described in the text. Numerous references, mostly Soviet, are given at the end of some of the articles.

TABLE OF CONTENTS [Abridged]:

Gerke, P. Ya. Introduction	3
Vasil'yev, L. L. Current Problems of the Physiological and Therapeutic Effect of Air Ions	5

Card 2/7

Problems in Health-Resort (Cont.)

SOV/6150

Kolodina, N. S. The Dependence of Atmospheric Ion Concentration on the Dose of Gamma Radiation	119
Davydova, M. P. Ionizing the Air of Hospital Rooms	129
Putilin, A. S. Air-Ionization Conditions for Operating Franklinization Equipment	137
Konko, A. I. Experience Gained in Air-Ion Therapy With Individual Dosages	153
Skorobogatova, A. M. The Humoral Mechanism of the Effect of Air Ions Upon the Organism	161
Blagodatova, Ye. T. Influence of Negative Air Ions Upon the Excitability of the Anemized Neuromuscular System	171

Card 5/7

ACCESSION NR: AP4019987

These decreased upon descending from the trachea. Complete deionization occurred in rabbits, cats and roosters at 5-6 cm trachea length, and in dogs at 12-13 cm. Such a difference points towards the role played by the volume of the upper respiratory tract in determining the ion absorption rate. The air entering the lungs was neutral. The kinetics of ion absorption are discussed. "The author wished to thank V. P. Kolokolov and I. M. Imanitov for reviewing the results." Orig. art. has 2 figures.

ASSOCIATION: Institut eksperimental'noy meditsiny* Akademii meditsinskikh nauk SSSR (Institute of Experimental Medicine, Academy of Medical Sciences SSSR)

SUBMITTED: 16May63 DATE ACQ: 23Mar64 ENCL: 00

SUB CODE: AM, BC NO REF Sov: 000 OTHER: 000

Card 2/2

S/081/62/000/011/002/057
E073/E192

AUTHORS: Yermolayeva, Ye.V., and Skorobogatova, I.V.
TITLE: Ionic and covalent radii of cations in oxides
PERIODICAL: Referativnyy zhurnal, Khimiya, no.11, 1962, 10,
abstract 11 B20. (In: Nauchn. tr. Ukr. n.-i. in-t
orneuporov, no.5(52), 1961, 303-314).
TEXT: It is shown that it is possible to calculate the
ionic and covalent radii of cations for different coordination of
ions on the basis of the theory of electronegativity. The
electronegativities and the ionic radii were calculated for the
following cations:
 Na^+ ; Mg^{2+} ; Ca^{2+} ; Al^{3+} ; Cr^{3+} ; Fe^{2+} and Fe^{3+} ; Si^{4+} ; Ti^{4+} ;
 Mn^{2+} and Mn^{4+} ; predominantly in the tetrahedral and octahedral
coordination. The electronegativities were calculated for the
anions: AlO_3^{3-} ; CrO_5^{3-} ; FeO_3^{3-} ; SiO_4^{4-} ; TiO_4^{4-} ; MnO_4^{4-} and the
covalent radii of cations combined with the anions for tetrahedral
and octahedral coordination.
Card 1/1 [Abstractor's note: Complete translation.]

SKOROBATSOVA, L.I.

Fission of tissue proteins in the animal extremities with various regenerative capacity and in various times following amputation.
Doklady Akad. nauk SSSR 81 no.5:957-960 11 Dec 51. (CIML 21:5)

1. Presented by Academician A.I. Abrikosov 16 October 1951.
2. Institute of Animal Morphology imeni A.N. Severtsov, Academy of Sciences USSR.

PETROVA, Ye.A.; SKOROBOGATOVA, N.V.

Geochemistry of lithium the pneumatolytic-hydrothermal formations
associated with alkaline granitoids and syenites. Geol.mest.red.-
(MIRA 14:9)
elem. no.9:126-139 '61.
(Siberia--Lithium)

SKOROBOGATOVA, H.V.

A variety of rare earth pyrochlore from albitites. Geol.mest.red.-
elem. no.9:152-161 '61. (MIRA 14:9)
(Siberia--Pyrochlore) (Siberia--Albitite)

SKOROBOGATOVA, N.V.; KOSTIN, N.Ye.; SIDORENKO, G.A.; STOLYAROVA, T.I.

Thalenite from albites of Eastern Siberia. Dokl. AN SSSR 155
no.1:100-103 Mr '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya. Predstavлено академиком D.I.Shcherbakovym.

MINEYEV, D.A.; SKOROBOGATOVA, N.V.; BYKOVA, A.V.

Composition of pyrochlore group minerals from rare-metal
apogranites. Dokl. AN SSSR 164 no.2:399-402 S '65.
(MIRA 18:9)

1. Submitted March 10, 1965.

Skorobogatov, V. I.

Skorobogatov, V. I. -- "Investigation of the System Nickel-Alumina as Part of the
System Copper-Nickel-Alumina." Cand. Sci. Del., Inst. of Phys. & Mat. Inorganic Chemistry,
Acad. Sci. USSR, Moscow 1953. (Referativnyy Zhurnal--Khimiya, No. 4, Jan 54)

DC: 5" 16", July 1974

POGODIN, S.A.; SKOROBOGATOVA, V.I.

Alloys of nickel with zirconium. Izv.Sekt.fiz.-khim.anal. no.25:70-80
'54. (MIRA 8:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakeva
Akademii nauk SSSR.
(Nickel-zirconium alloys)

GOLUTVIN, Yu.M.; MALYSHEVA, T.V.; SKOROBOGATOVA, V.I.

Solubility of hydrogen sulfide and carbon dioxide in water and
aqueous solutions of ammonia and phenol. Izv. Sib. otd. AN SSSR.
no.8:83-87 '58. (MIRA 11:10)

1. Vostochno-Sibirskiy filial AN SSSR.
(Phenol) (Hydrogen sulfide) (Ammonia) (Carbon dioxide)

TSEFT, A.L.; SKOROBOGATOVA, V.I.; GURULEVA, N.N.

Autoclave oxidation of ferrous sulfate in solution. Trudy Vost.-Sib.
fil. AN SSSR no.25:89-95 '60. (MIRA 13:9)
(Iron sulfate) (Oxidation)

SKOROBOGATOVA, V.I.; TSEFT, A.L.; GURULEVA, N.N.

Oxidation of ferrous sulfate in solutions containing zinc, nickel,
or cobalt. Trudy Vost.-Sib.fil. AN SSSR no.25:96-99 '60.
(MIRA 13:9)

(Iron sulfate)

(Oxidation)

L 52618-65 EWG(j)/EWT(m)/EPF(c)/EPR/EWP(t)/EWP(b) Pr-4/Ps-4 LJP(c) JD/JC
ACCESSION NR: AP5014489 UR/0032/65/031/006/0674/C575

AUTHOR: Ganopol'skiy, V. I.; Krivonozhnikova, L. G.; Skorobogatova, V. T. 29

TITLE: Cerium determination in high-purity neodymium and praseodymium oxides 3

SOURCE: Zavodskaya laboratoriya, v. 31, no. 6, 1965, 674-675

TOPIC TAGS: high purity rare earth, neodymium oxide, praseodymium oxide, cerium impurity determination, spectrophotometric analysis 7

ABSTRACT: Some additional experimental data have been reported concerning application of the peroxide spectrophotometric method for determination of cerium impurities in the rare earths. The method was outlined in previous reports. In the case of neodymium and praseodymium oxides, unlike lanthanum oxide, it was necessary to eliminate a source of error due to absorption by the base element. This absorption was dependent on the varying content of other rare earth elements and was determined simultaneously in a blind probe, without hydrogen peroxide addition. Calibration curves were also obtained with the use of a blind probe. Agreement with Beer's law was observed over the entire range of optical densities. From 0.01 to 0.002% cerium could be determined with 5-20% relative error using 5-cm thick cells and measuring the absorption at 360 m μ . The method gave good results in analyzing a great number of neodymium oxide samples. [JK]

Card 1/2

L 52618-65

ACCESSION NR: AP5014489

ASSOCIATION: none

ENCL: 00

SUB CODE: GC

SUBMITTED: 00

OTHER: 000

ATD PRESS: 4010

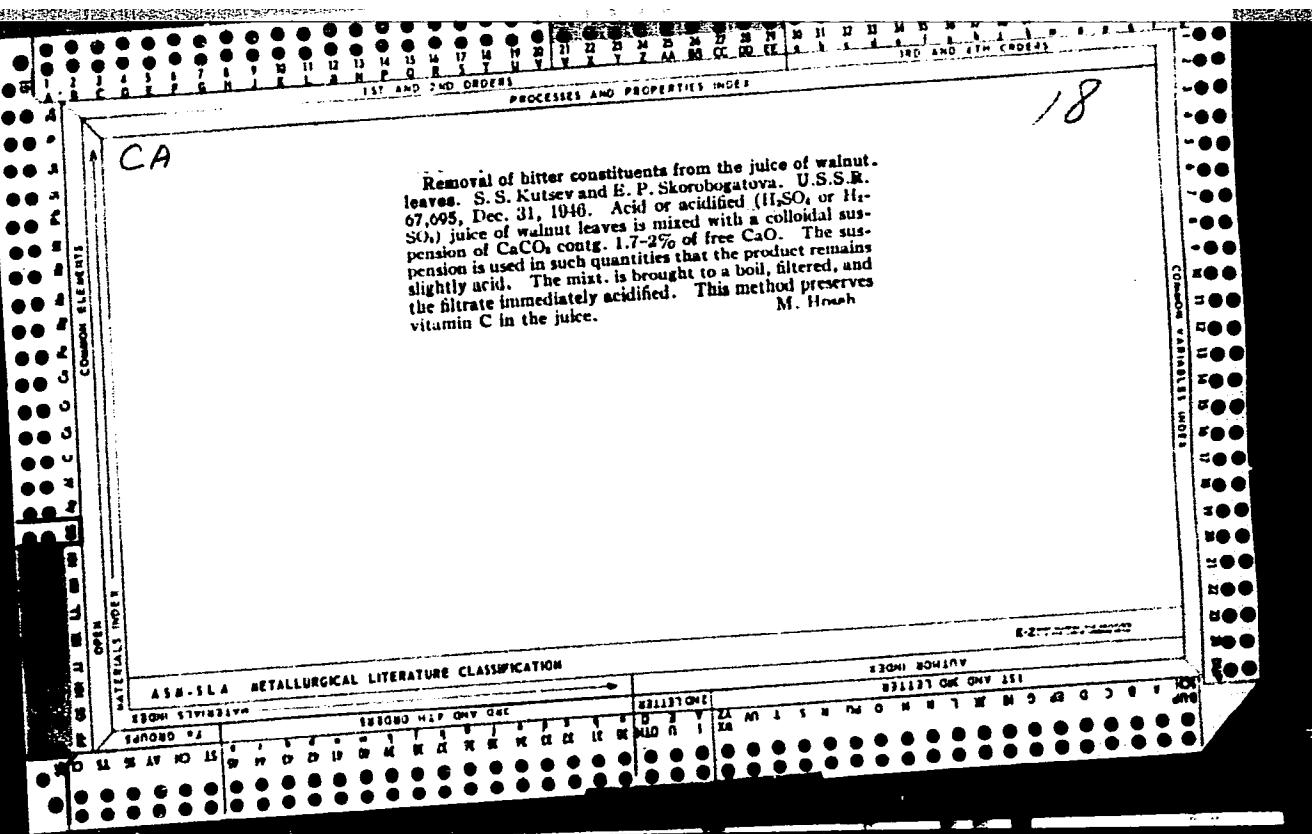
NO REF SOV: 001

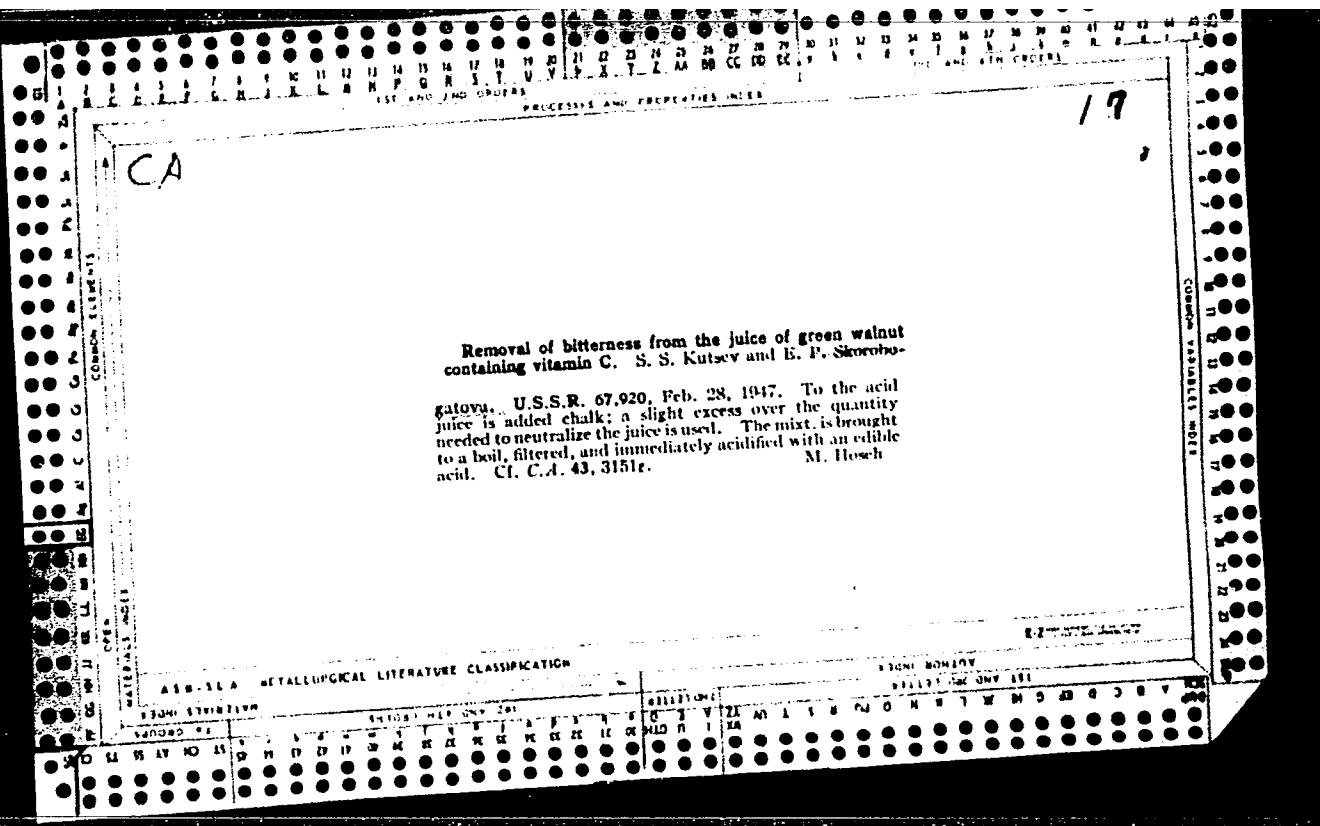
LL
Card 2/2

BELAYENKO, F.A., prof., dokotor tekhn.nauk; KUCHERYAVYY, F.I., kand.tekhn.
nauk; DRUKOVANNYY, M.F., inzh.; SKOROBGATOVA, Ye.N., inzh.

Breaking rocks by blasting according to foreign investigation
data. Vzryv. delo no.45:36-49 '60. (MIRA 14:1)
(Blasting)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001651110015-0"





Vitamin and enzymic properties of the mycelium of *Penicillium*. K. L. Povolotskaya and B. P. Skorobogatova (*Bioch. Biochem. Inst., Acad. Sci., Moscow*). *Biochetn.* 12, 268-76 (1947).—The industrial production of penicillin presents the problem as to the best utilization of the mycelial waste product. About 1% of ergosterol can be extd. from the autolyzed mycelium with dichloroethane. The mycelium of *P. notatum* contains 37% thiamine and 20% riboflavin per g. dry substance; for *P. crustosum* the figures are 26 and 12%. The mycelium possesses a high degree of pectinolytic, proteolytic, and phosphatase activity. H. Priestley

CA

11 C

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001651110015-0"

BUKIN, V.N.; SKOROBOGATOVA, Ye.P.

Whale liver as a raw material for obtaining vitamin A. Vit.res. i
ikh isp. no.1:207-215 '51. (MLRA 8:12)
(VITAMINS--A) (WHALES)

POVOLOTSKAYA, K.L.; SKOROBOGATOVA, E.P.

Comparison of the chemical and microbiological methods for riboflavin
in plant materials. Biokhimiya 18, 79-88 '53. (MLRA 6:1)
(CA 47 no.15:7579 '53)

1. All-Union Vitamin Inst. , Moscow.

SKOROBOGATOVA, Ye.P.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Biological Chemistry

Sterol-protein complexes and their transformations.
Ya. Areshkin, V. N. Bukin, and I. P. Skorobogatova,
Ural Inst. Biokhim., Acad. Sci. U.S.S.R., Akad. Nauk SSSR
Biokhimiya 18, 539-63 (1953).—Chem. and phys. methods
of analysis were employed. In molasses and egg
yolk, sterol complexes with P-contg. proteins are represented
by a variety of compds. having different protein and sterol
components. Esterified and non-esterified sterols may enter
into complex formation with protein; hence it can not be
assumed that the hydroxyl group of ring A sterols is the
factor responsible for complex formation. The introduction
into ring B of another satt. bond (provitamin D) or the splitting
of ring B (vitamin D) does not render the steroid incapable
of protein complex formation. This would indicate
that the complex formation occurs at the H bond of C atoms
in positions 5, 7 of ring B. The stability of the complexes
varies. Some are destroyed by treatment with org. solvents,
while others can be destroyed only by alk. hydrolysis. Com-
plexes of varying degree of stability can be present in one
and the same lipoprotein. A direct relation exists in the
complexes between P, N, and the sterols. The formation
and splitting of the sterol-protein complexes are connected
with the processes of phosphorylation and dephosphoryla-
tion of the protein resulting correspondingly in an increase or
decrease in the sterol and lipoprotein content. The cleavage
of non-esterified sterols from the complex is connected
with the process of dephosphorylation. The cleavage of
esterified sterols occurs through other processes without the
reduction in P content of protein. In the egg yolk, provi-
tamin D enters into complex formation with the water-sol.
fraction of the protein, and this complex is easily destroyed
by heat of coagulation. B. S. Levine

SKOROBOROZTOVA, E.

USSR

Vitamins B₁, B₂, and PP in grain and products of its treatment. K. L. Povolotskaya, A. A. Kondrasheva, O. I. Pushkinskaya, and E. P. Skoroborotova (A. N. Bakh Inst. Biochem., Acad. Sci. U.S.S.R., Moscow). Biokhim. Zerna, Akad. Nauk S.S.R., Sbornik 2, 170-92 (1954).— Vitamin detns. were made on specimens of grain from wheat, rye, barley, corn, buckwheat, peas, soybeans, sunflower, lentil, and cotton. The highest content of thiamine is in sunflower seed (24 mg./kg.), of riboflavin in soybean (2.10), and nicotine acid in sunflower (69.6), and wheat (51.00), as well as barley (87). The loss of the B vitamins in treatment of the grain varies with the techniques employed; the removal of the seed covers during milling reduces the vitamin content of the flour but little. G. M. K.

BUKIN, V.N.; POVOLOTSKAYA,K.L.; KONDRASHOVA, A.A.; SKOROBOGATOVA, Ye.P.

Fluorometric method for the determination of thiamine. Vit. res. i
ikh isp. no.3:91-99 '55. ~~—~~
(MLRA 9:4)

(THIAMINE) (FLUORIMETRY)

POVOLOTSKAYA, K.L.; ZAYTSEVA, N.I.; SKOROBOGATOVA, Ye.P.

Fluorometric method for the determination of riboflavin. Vit. res.
i ikh isp. no.3:108-120 '55. (MIRA 9:4)

(RIBOFLAVIN) (FLUOROMETRY)

POVOLOTSKAYA, K.L.; SKOROBOGATOVA, Ye.P.; ZAYTSEVA, N.I.

Microbiological method for the determination of riboflavin. Vit. res.
i ikh isp. no.3:121-128 '55. (MLRA 9:4)

(RIBOFLAVIN) (LACTOBACILLUS CASEI)

BUKIN, V.N.; ARKESHKINA, L.Ya.; SKOROBOGATOVA, Ye.P.

Chemical method for the determination of vitamin B₁₂. Vit. res. i
ikh isp. no.3:182-187 '55. (MLRA 9:4)

(VITAMINS--B) (COLORIMETRY) (SPECTRUM ANALYSIS)

SKOROBOGATOVA, E.P.

✓ Biosynthesis of thiamine, riboflavin, and nicotinic acid in seeds. K. L. Povolotskaya, O. I. Pyshkinskaya, A. A. Kondrashova, and E. P. Skorobogatova (A. N. Bakh Inst. Biochem., Moscow). *Dokl. Akad. Nauk SSSR* 1956, No. 8, 146-55.—The addn. to the medium of thiamine, riboflavin, and nicotinic acid markedly increases the growth of sprouts of wheat and peas. Biotin, lysine, and methionine lower the energy of sprouting of the seeds and the growth of sprouts. The rate of biosynthesis of thiamine in sprouting seeds increases under the influence of riboflavin, nicotinic acid, and biotin; the rate of biosynthesis of riboflavin is accelerated by nicotinic acid and tryptophan. Thiamine, biotin, lysine, methionine, and tryptophan accelerate the biosynthesis of nicotinic acid. Solas. of oxythiamine and siloxan inhibit the growth of sprouts and lower the biosynthesis of riboflavin, and these substances could be considered as antivitamins in plants. J. A. Stekol

ARESHKINA, L.Ya.; BUKIN, V.N.; YEROFEYEVA, N.N.; SKOROBOGATOVA, Ye.P.

Changes in the protein-sterol complexes of blood serum in experimental rickets and D hypervitaminosis [with summary in English]. Biokhimiia 22 no.1/2:384-390 Ja-F '57. (MIRA 10:7)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.
(RICKETS, experimental,
blood protein bound phosphorus (Rus))
(PHOSPHORUS, in blood,
in rickets & hypervitaminosis D, protein-bound (Rus))
(VITAMIN D,
exper. hypervitaminosis, blood protein bound phosphorus
in (Rus))

SKOROBOGATOVA, N. A., ARZHIKINA, L. YA., and KUTSEVA, L. S. (USSR)

"The Participation of Vitamin B₁₂ in the Protein Metabolism of
Escherichia coli 113-1."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

ARESHKINA, L.Ya.; KUTSEVA, L.S.; SKOROBOGATOVA, Ye.P.; ZHUKOVA, I.G.

Participation of vitamin B₁₂ in the protein metabolism of Escherichia coli. Vit. res. i ikh. isp. no.5:19-31 '61. (MIRA 15:1)

1. Institut biokhimii im. A.N.Bakha AN SSSR, Moskva.
(CYANOCOBALAMINE) (PROTEIN METAPOLYM)

ARESHKINA, L.Ya.; SKOROBOGATOVA, Ye.P.

Chemical testing of vitamin B₁₂ produced by the use of propionic acid bacteria. Vit. res. i ikh. isp. no.5:164-167 '61. (MIRA 15:1)

1. Institut biokhimii im. A.N.Bakha AN SSSR, Moskva.
(CYANOCOBALAMINE)
(DRUGS—ADULTERATION AND ANALYSIS)

16519
S/020/62/143/004/025/027
B144/B138

27.2400

AUTHORS: Minayev, P. F., Moshchinskiy, P., and Skorobogatova, Ye. P.

TITLE: Increasing the radioresistance of nervous tissue by combined administration of thiamin preparations and narcotics

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 4, 1962, 976 - 979

TEXT: 1) Nembutal (30 mg/kg); 2) Alinamin, i. e. thiamin propyl disulfide (2 mg/kg); and 3) Hexonium (3 mg/kg), a ganglion blocker preventing brain oedema, were administered to guinea pigs and dogs subsequently irradiated with 9,000 and 20,000 r, respectively; their effect as radiation blockers was verified by histochemical and histological analyses of the cerebellum. In non-protected animals, local irradiation of the cerebellum results in heavy nervous disturbances, oedema, structural changes, and disorder of the carbohydrate-phosphorus metabolism with formation of large quantities of lactic and pyruvic acids. In non-protected animals test series I revealed a thiamin reduction of 45% and an increase in pyruvic acid of ~25%; whereas such changes were not observed after treatment with radiation blockers 30 min before irradiation. With parenteral B₁

Card 1/2

X

Increasing the radioresistance...

S/020/62/143/004/025/027
B144/B138

administration the thiamin content was slightly reduced (13%), but Alinamin actually caused an increase (35%). Similar effects were observed in the liver, although it had not been directly irradiated. Series II proved that radiation-induced cerebellar disturbances are prevented by thiamin and, more especially, by Alinamin. This is of great importance for the radiotherapy of brain tumors and, since Alinamin also penetrates into the liver cells, for the radiation protection of the entire organism and the treatment of radiation sickness. There are 3 figures.

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR
(Institute of Biochemistry imeni A. N. Bakh of the Academy of Sciences USSR); Institut biologicheskoy fiziki Akademii nauk SSSR (Institute of Biophysics of the Academy of Sciences USSR)

PRESENTED: October 5, 1961, by A. I. Oparin, Academician

SUBMITTED: October 5, 1961

Card 2/2

X

ARESHKINA, L.Ya.; CHANAN SINGKH; KUTSEVA, L.S.; SKOROBOGATOVA, Ye.P.

Isolation of the coenzyme of vitamin B₁₂. Dokl. AN SSSR 146
no.1:207-209 S '62. (MIRA 15:9)

1. Institut biokhimii im. A.N. Bakha AN SSSR. Predstavлено
академиком А.И. Опарином.
(CYANOCOBALAMIN) (COENZYMES)

ARESHKINA, L.Ya.; KUTSEVA, L.S.; SKOROBOGATOVA, Ye.P.

Cobamide coenzymes. Usp.biol.khim. 5:262-274 '63. (MIRA 17:3)

KUTSEVA, L.S.; ARESHKINA, L.Ya.; ANDREYEVA, N.A.; SKOROBOGATOVA, Ye.P.

Folic acid activating enzyme system resistant to aminopterin
and containing vitamin B₁₂. Biokhimiia 29 no.5:969-974
Jl-Ag '64. (MIRA 18:11)

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SKOROBOVICHUK, N.F.

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TOPOLAC, Z.; BURIC, I.; SKOROBRIJAN, M.

Quenching of fluorescence in quinoline and its derivatives by organic substances. Glas Hem d. 28 no.5/6:257-263 '63.

1. Institute of Physics, Belgrade.

L 8734-65 AEDC(a)

ACCESSION NR: AF4041060

8/0195/64/005/003/0388/0398

AUTHOR: Voinov, A. N.; Skorodelov, D. I.; Sokolov, F. P.

TITLE: Relationship of the delay in ignition of hydrocarbon-air mixtures during adiabatic compression to temperature and pressure

SOURCE: Kinetika i kataliz, v. 5, no. 3, 1964, 388-398

TOPIC TAGS: ignition delay, hydrocarbon air mixture, adiabatic compression, ignition zone, cold flame zone, preignition process, hot flame formation, engine knock

ABSTRACT: The effect of the temperature and pressure of adiabatic compression on the duration of the delay in ignition of mixtures of 60% isoctane with 40% n-heptane in stoichiometric proportions with air was investigated at temperatures to 800°C and pressures to 20 absolute atmospheres. Data was obtained on the apparatus shown in Fig. 1 which registered the changes in the times of a given intensity of illumination from a cold flame as received by the photocathode. The appearance of a hot flame is noted by the oscillograph beam leaving the limits of the screen. At low temperatures and pressures ignition proceeds in one stage, but in the

Card 1/5

L 8734-65
ACCESSION NR: AP4041060

temperature range of about 375 to 525°C a preignition process stage precedes the cold flame. Fig. 2 summarizes the relationship between the delays (τ_1 = first delay period to maximum intensity of cold flame, τ_2 = second delay until the formation of hot flame, τ_t = total delay) and the compression temperature at different pressures. The ignition zone is to the left of the heavy lines; the limits of the cold flame zone are shown by the dotted lines. The 2-stage preignition process and zones in which the temperature coefficient is negative or zero are observed far in the depth of the ignition zone at pressures above 20 abs. atm. The form of the ignition zone boundary is associated with the character of the change of the duration of delays inside the zone. Plotting the total delays on P-T coordinates gives reverse-S shaped curves which are more pronounced at lower pressures. Curve I was drawn joining the maximums of τ_2 at different pressures; curve II joins the minimums of the total time lags τ_t , and III, the minimum of the delays τ_2 , limiting the 2-stage ignition from the low temperature side. It was concluded that 3 successive competing reactions, each playing a leading role in determined temperature zones, take part in the development of the preignition process. One reaction precedes the cold flame, one develops after the cold flame ignition and has a negative temperature coefficient and the third is at higher temperatures and has high activation energy values. The top of the 2-stage

Card 2/5

L 8734-65
ACCESSION NR: AP4041060

ignition is where the rate of the third reaction exceeds that of the second. Based on this work, the anomalous "knock" in gasoline engines at higher temperatures is explained by the longer delay in ignition with increasing temperature. Orig. art. has: 7 figures.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR), Moskovskiy avtomobil'nodorozhnyy institut (Moscow Automobile Highway Institute)

SUBMITTED: 10Jul62

ENCL: 02

SUB CODE: OF, FP

NO REF Sov: 004

OTHER: 003

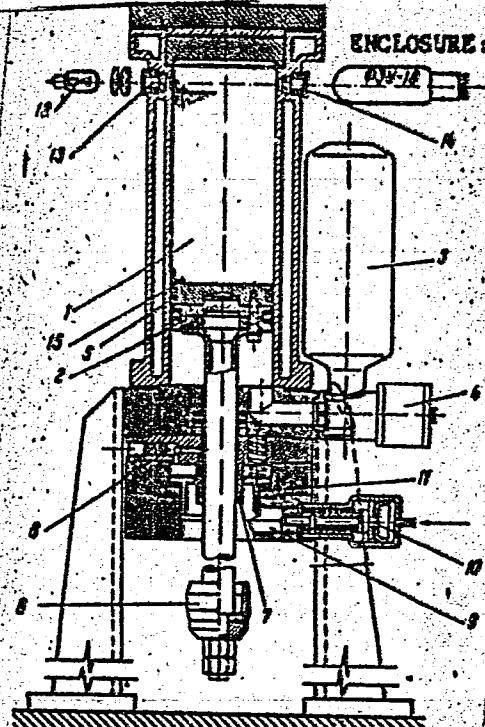
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ACCESSION NR: AP4041060

Fig. 1. Arrangement of adiabatic compression apparatus

1--vertical cylinder
2--piston
3--receiver
4--high speed electromagnetic valve
5--cast iron piston rings
6--steel housing
7--bushing
8--reducing valves (for lubrication)
9--steel bars
10--piston (compressed air)
11--expansion ring
12--lamp
13--quartz window
14--window to cathode photomultiplier
15--deflector

Card 4/5



L 8734-65
ACCESSION NR: AP4041060

ENCLOSURE: 02

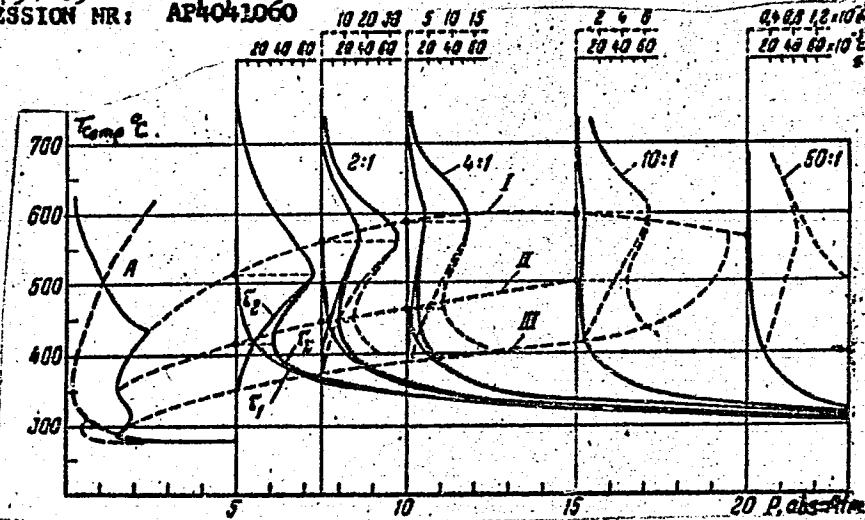


Fig. 2. Comparison of changes in τ_1 , τ_2 , and τ_z depending on T_{comp} at different P_{comp} with characteristic boundaries of the ignition zone.

Card

5/5

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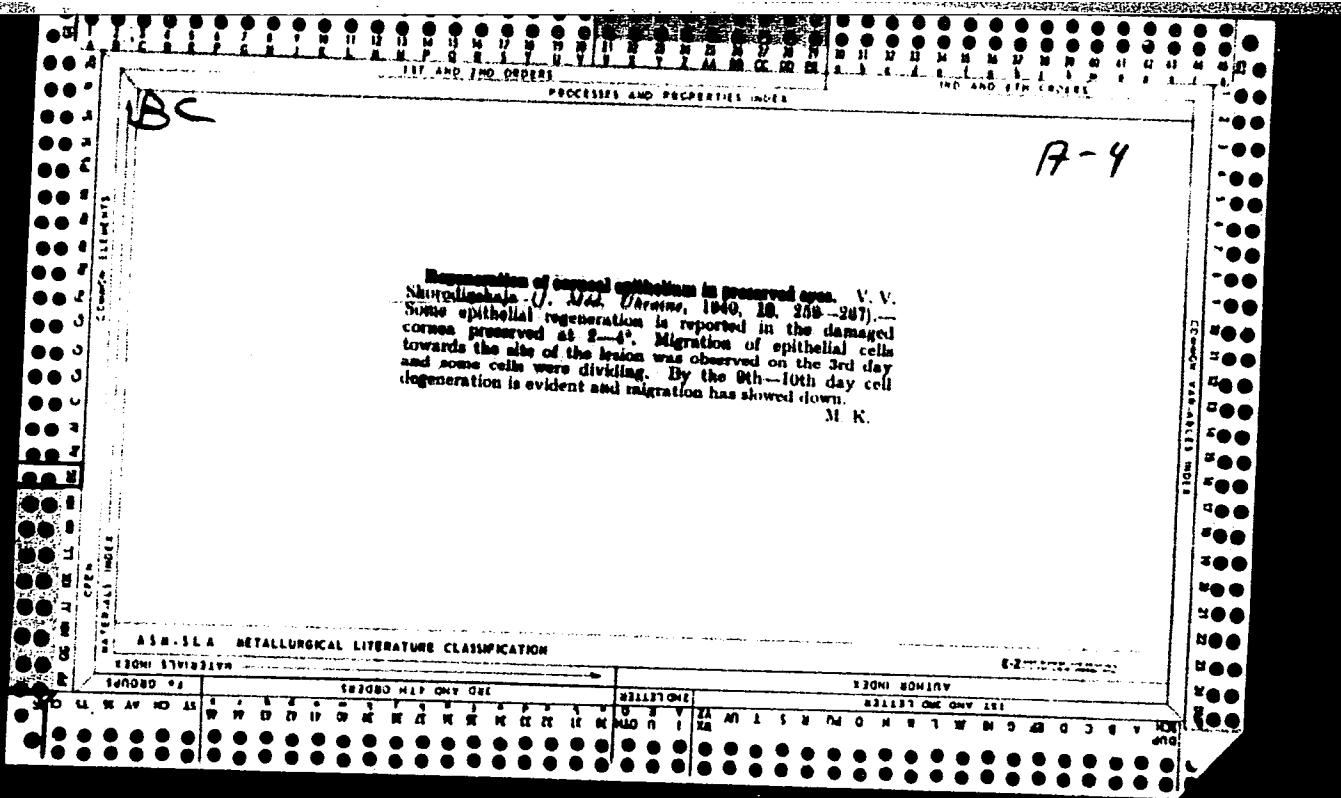
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THREE EASY PROBLEMS

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ochnikh khvorob im. V.P.Filatova (direktor - laureat Stalins'koj
premii diysniy chlen AN URSR V.P.Filatov). 2. Direktor Ukrains'kogo
leprozoriyu (for Kirshfel'd)
(TISSUE EXTRACTS) (LEPROSY)

SKORODINS'KA, V.V.

Therapeutic role of aloe leaves preserved under protection from
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Filatov) Instituta klinichnoi fiziologii AN URSR (direktor -
akad. O.O.Bogomolets')
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USSR/Medicine - Tissue Therapy

Jul/Aug 51

"Quantitative Index of the Activity of Catalase as a Method of Controlling Treatment by Tissue Therapy Methods," A. F. Sysoyev, V. V. Skorodinskaya, (Sr Sci Associate), Ukrainian Exptl Inst of Eye Diseases

"Vest Oftalmol" Vol XXX, No 4, pp 24-32

Using various dosages and various methods of tissue therapy (including application of retinene, aloe, distillate T₁₇, placenta, distillate Dr T₁₇, implantations of heterogenous tissue), found that the level of blood catalase 198759

USSR/Medicine - Tissue Therapy
(Contd)

Jul/Aug 51

(as detd by A. N. Balch and S. R. Zubkova's method) is raised by the introduction of biogenic stimulants into the organism. Detn of catalase in the blood permits one to check the effectiveness of the treatment.

198759

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akad. V.P. Filatova (dir.-akad. V.P. Filatov)
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Filatov's flap, form. in animals)

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Academician V.P. Filatov's creative work. Klin.med. 33 no.5:
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SKORODINSKAYA, V.V., starshiy nauchnyy sotrudnik

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Oft.zhur. 11 no.1:52-54 '56. (MIRA 9:9)

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(CORNEA--TRANSPLANTATION)

SKORODINSKAYA, V.V., starshiy nauchnyy sotrudnik

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(aloe, agave, pelloidodistillate, FIBS) in treating acute compli-
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bolezney i tkanevoy terapii imeni akad. V.P.Filatova (dir. -
prof. N.A.Puchkovskaya)
(TISSUE EXTRACTS) (MYOPIA)

SKORODINSKAYA, V.V., starshiy nauchnyy sotrudnik; SOKOLENKO, O.M., klinicheskiy
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Effect of enucleation on the function of the remaining healthy eye.
Uch. zap. UEIGB 4:380-383 '58. (MIRA 12:6)

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Metabolism in patients with marked myopia and deratoconus. Oft.
zhur. 13 no.5:261-266 '58 (MIRA 11:10)

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i tkanevoy terapii im. akademika V.P. Filatova (direktor - prof.
N.A. Puchkovskaya).

(METABOLISM)

(EYE—DISEASES DEFECTS)

MUCHNIK, S.R., doktor med.nauk; SYSOYEV, A.F., starshiy nauchnyy sotrudnik;
CHIKALO, I.I., starshiy nauchnyy sotrudnik; SIRODINSKAYA, V.V.,
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New data on the theory and practice of tissue therapy. Oft.zhur.
13 no.8:451-456 '58. (MIRA 12:2)

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SKORODINSKAYA, V.V.; SHCHASTNAYA, N.E.

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V.P. Filatova.
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V.P. Filatova (dir. - prof. N.A. Puchkovskaya).
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DEYNEKA, I.Ya., prof., zasl. deyatel' nauki, otv. red.(Odessa);
BURLAKOV, F.F., dots., red.; KAL'FA, S.F., prof., red.;
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MUCHNIK, S.R., doktor med. nauk, red.; FUCHKOVSKAYA, N.A.,
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